

certain mixture of Orpiment and *Viridi Aeris* in a due proportion, the mixture lost its purple tincture, and became perfectly dun. But the Experiment succeeded best without Minium thus. To Orpiment I added by little and little a certain full bright purple, which Painters use until the Orpiment ceased to be yellow, and became of a pale red. Then I diluted that red by adding a little *Viride Aeris*, and a little more blue Bise than *Viridi Aeris*, until it became of such a grey or pale white, as verged to no one of the Colours more than to another. For thus it became of a Colour equal in whiteness to that of Ashes or of Wood newly cut, or of a Man's Skin. The Orpiment reflected more Light than did any other of the Powders, and therefore conducted more to the whiteness of the compounded Colour than they. To assign the proportions accurately may be difficult, by reason of the different goodness of Powders of the same kind. Accordingly as the Colour of any Powder is more or less full and luminous, it ought to be used in a less or greater proportion.

Now considering that these grey and dun Colours may be also produced by mixing whites and blacks, and by consequence differ from perfect whites not in Species of Colours but only in degree of luminousness, it is manifest that there is nothing more requisite to make them perfectly white than to increase their Light sufficiently; and, on the contrary, if by increasing their Light they can be brought to perfect whiteness, it will thence also follow, that they are of the same Species of Colour with the best whites, and differ from them only in the quantity of Light. And this I tryed as follows. I took the third of the above-mentioned grey mixtures

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Bise and *Viridi*  
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so that I could not  
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gritty particles  
white, so as to touch  
ness, especially  
the Light of the  
with the Powder  
Powder had done  
where the Sun fell  
or by shutting it  
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fit means of increasing  
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Light wherewith  
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appear exactly as  
trying this, a Fellow  
at the door, and  
were, or what I  
two whites were  
And after he had  
answered, That  
he could not say  
lours differed.  
of the Powder in